Amendments to the Specification

At page 6 - Please delete the paragraph commencing at line 19 commencing "Figure 2..."

At page 6 last line please replace the paragraph by:

Figure $\underline{2}$ $\underline{3}$ depicts the resistance versus temperature plot.

At page 7 line 1 replace the paragraph by:

Figure 4 3(a-c) depicts the magneto-resistive property of the material at different temperatures.

At Page 10 - please amend the paragraph commencing at line 1 to read as follows: Figure 2 showas the scanning electron micro-graph of the as-prepared CrO2 polymer blend. The gray regions as shown in figure 2 are presumably the Electron photomicroscopy shows grains that are presumably CrO₂ grains and the dark regions with interconnecting those grains are regions that are additive rich regions. Percolation between grains is achieved by doping up to 3 - 8% additive.

At page 10 line 7 please replace the paragraph by the following:

Figure 2 3 shows the plot of normalized resistance versus temperature plot for the CrO₂ polymer blend with and without the application of an external magnetic field. Note the sharp decrease in resistance at low temperatures below 10°K 10K. The drop in resistance arises out of inter-grain tunneling when two moments of neighboring grains are forced to align by applying an external magnetic field.

At page 10 line 14 replace the paragraph by the following:

Figures 4 3(a-c) show shows plots plot of magneto-resistance at different temperatures. The field dependence of resistance is more pronounced at

temperatures below $4^{\circ}K$ 4K and the percentage of magneto-resistance decreases with increasing temperatures. This is because the moments of each CrO_2 grain in the polymer blend is so randomly oriented that the external field is unable to force the grains to orient parallel to each other. As a result there is no substantial change in the resistance. However, at low temperatures, inter grain tunneling shows drastic change in resistance as a function of magnetic field.